

Remarks

Applicants respectfully request reconsideration of this application as amended. Claims 1, 8, 10, 11, 13-16, 20-22, 24 and 28 have been amended. Claims 6-7, 9, 17-19, 23 and 25-27 have been cancelled. Claims 29-36 are new. Therefore, claims 1-5, 8, 10-16, 20-22, 24, 28-36 are present for examination.

Drawings

The drawing were objected to as failing to show an encoder configured to encode the video data as recited, e.g. in claim 15. The claims have been amended to refer to the video information in accordance with the drawings.

Specification

The disclosure was objected to on three grounds. First the difference between the comparator 222 and differential generator 230 were asserted to not be clear. As recited at the top of page 8 of the specification. The comparator compares the frame data and the gathered information, while the differential generator determines the differential information. Figure 1b shows that the comparator output (the comparison) is fed to the differential generator and that the differential information is provided to the encoder which provides its data to the annotator for insertion into the video bitstream. Accordingly, it is clearly disclosed that the comparator result is an intermediate result used by the differential generator in determining the differential information.

The second objection was the absence of specific mention of part 203 in the specification. This has been addressed by the amendment above. The additional text is taken directly from what a person of average skill would understand from looking at Figure 1b as originally filed and does not add new matter.

The third objection was a misspelling of 201, also corrected in the amendments above.

35 U.S.C. §103 Rejection

Narayanaswami in view of Epstein

The Examiner has rejected claims 5, 7-10, 15-18, 23 and 25-28 under 35 U.S.C. §103(a) as being unpatentable over Narayanaswami, U.S. Publication No. 2003-0011684 A1, ("Narayanaswami") in view of Epstein et al., U.S. Patent No. 6,530,021 B1 ("Epstein"). Claim 1, as amended, refers specifically to differential information based on a comparison of a current state of video information with gathered video information. While MPEG video encoding may involve comparing frames to each other, the comparison is applied to the image data of the frames. This is done to reduce the very large amount of data required to describe each image. In Claim 1, the comparison is applied to the video information. As expressed in Claim 1, this is not the actual images but information regarding the video frame data. There is no corresponding motivation in the art to compress this information. Assuming that the data in paragraph 43 Narayanswami is similar to that of the present invention, all of it consumes a mere 211 bytes. This is very little data compared to a single NTSC video image with 525 lines of about 700 color pixels each. Accordingly, Claim 1, as amended, is believed to be allowable.

35 U.S.C. §102 Rejection

Narayanaswami

The Examiner has rejected claims 1-4, 6, 11-14, 19-22 and 24 under 35 U.S.C. §102(e) as being anticipated by Narayanaswami. New Claim 30 contains limitations similar to those of original Claim 1. However, new claim 30 more clearly defines the video processing data. As described in, for example, originally filed claims 2, 3, and 4, the type of data appended to the image data is related to video processing. The specifically enumerated data types are related directly to video processing by the specification at e.g. page 2, lines 5, et seq., page 5, lines 22 et seq., page 6, line 21 et seq., and page 12, lines 12 et seq., inter alia.

In Narayanaswami, the data is not useful for e.g. 3-D rendering or special effects but is intended only for verifying authenticity (Abstract, para. 0036). The particular parameters embedded in the watermark appear to be selected to frustrate forgeries (para. 0012, 0013). In Epstein, copy prevention is again the only focus and the only recorded data is encryption keys. Accordingly, neither reference suggests an annotated bitstream that includes data for subsequent video processing as recited in claims 30-36. Applicants respectfully submit that these claims are also allowable.

Conclusion

Applicants respectfully submit that the rejections have been overcome by the amendment and remark, and that the claims as amended are now in condition for allowance. Accordingly, Applicants respectfully request the rejections be withdrawn and the claims as amended be allowed.

Invitation for a Telephone Interview

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Request for an Extension of Time

Applicants respectfully petition for an extension of time to respond to the outstanding Office Action pursuant to 37 C.F.R. § 1.136(a) should one be necessary. Please charge our Deposit Account No. 02-2666 to cover the necessary fee under 37 C.F.R. § 1.17(a) for such an extension.

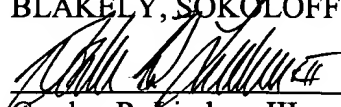
Charge our Deposit Account

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,

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